

What is claimed is:

1. A dental implant system comprising
an expandable polymer sheath suitable
for placement within a jawbone; and
- 5 a rigid implant fitting within the
polymer sheath and causing expansion of the polymer
sheath when fitted within the sheath.
2. A system as in claim 1
wherein the polymer is Ultra High Molecular
Weight Polyethylene.
3. A system as in claim 1
wherein the polymer is Polypropylene.
4. A system as in claim 1
wherein the polymer is High Density
Polyethylene.
5. A system as in claim 1
wherein the polymer is Polyurethane Elastomer.
6. A system as in claim 1
wherein in the implant is made of
titanium or an alloy thereof.
7. A system as in claim 1
wherein the implant is made of stainless
steel or an alloy thereof.
8. A system as in claim 1
wherein the polymer sheath has an
exterior surface that is ribbed.
9. A system as in claim 1
wherein the polymer sheath has an
interior surface that is threaded, and
wherein the implant has an exterior
5 surface that is threaded, and
whereby the interior surface of the
polymer sheath mates with the exterior surface of the

implant when the implant is fitted within the polymer sheath.

10. A system as in claim 1
wherein the implant is tapered.

11. A system as in claim 1
wherein the implant is ribbed.

12. A system as in claim 1
further comprising an abutment adapted to be
fixed to the rigid implant, the abutment permitting
attachment of a dental prosthesis.

13. A system as in claim 12
wherein the polymer sheath, the implant, and
the abutment, when coupled together and inserted within
a jawbone, form a support structure that permits
5 attachment of a dental prosthesis.

14. A system as in claim 13
wherein the prosthesis is a single crown.

15. A system as in claim 13
wherein the prosthesis is a bridge.

16. A system as in claim 13
wherein multiple support structures support
a dental prosthesis.

17. A system as in claim 16
wherein the prosthesis is a bridge.

18. A system as in claim 1
wherein expansion of the sheath upon
insertion of the implant results in immediate stability
of the sheath within the jaw bone.

19. A system as in claim 13
wherein the support structure and prosthesis
can be inserted in a single office visit.

20. A method of installing a dental
prosthesis comprising the steps of:

- providing a system as in claim 11;
preparing a site within a jawbone;
5 inserting the polymer sheath into the prepared site;
inserting the implant within the sheath,
thereby causing expansion of the sheath within the jawbone;
10 coupling the abutment to the implant;
whereby the sheath, the implant, and the abutment form a support structure for a dental prosthesis; and
attaching a dental prosthesis to the abutment.
21. A method as in claim 20
wherein the prosthesis is a crown.
22. A method as in claim 20
wherein the prosthesis is a bridge.
23. A method as in claim 20 comprising the further step of:
implanting a plurality of support structures into the jawbone.
24. A method as in claim 23 further comprising the step of
attaching a bridge to the support structures.
25. A method of inserting a dental implant comprising the steps of
providing a system as in claim 1;
preparing a site within a jawbone; and
5 inserting the polymer sheath into the prepared site; and
inserting the implant within the sheath,
thereby causing expansion of the sheath within the jawbone.